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INDEX TO AMERICAN BOTANICAL LITERATURE

1911-1918

The aim of this index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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Andrews, E. F. A botanist's suggestion for a national flower. *Am. Bot.* **24**: 8-10. F 1918.

Andrews, F. M. *Closterium moniliferum*. *Proc. Indiana Acad. Sci.* **1916**: 323, 324. 1917.

Anthony, R. D. Inheritance of sex in strawberries. *New York Agr. Exp. Sta. Tech. Bull.* **63**: 3-10. S 1917.

Atkinson, G. F. Selected cycles in *Gymnoconia peckiana*. *Am. Jour. Bot.* **5**: 79-83. 9 Mr 1918.

Beardslee, H. C. The russulas of North Carolina. *Jour. Elisha Mitchell Sci. Soc.* **33**: 147-198. *pl.* 70-111. Ja 1918.

Blake, S. F. Further new or noteworthy Compositae. *Contr. Gray Herb.* **II. 53**: 23-30. *pl.* 1. 26 F 1918.

Includes *Cirsium acanthodontum*, *Liabum hypochlorum*, *Verbesina Arthuri*, *Diplostephium denticulatum* and *Aphanostephus Kidderi*, spp. nov.

Blake, S. F. *Lycopodium sabinaefolium* Willd. var. *sharonense* (Blake) comb. nov. *Rhodora* **20**: 60. 2 Mr 1918.

Blake, S. F. New plants from Oaxaca. *Contr. Gray Herb.* **II. 53**: 55-65. 26 F 1918.

Includes the new genus *Schismocarpus* and thirteen new species in various genera.

Blake, S. F. New Spermatophytes collected in Venezuela and Curaçao by Messrs. Curran and Haman. Contr. Gray Herb. II. **53**: 30-55. 26 F 1918.

Includes the new genera *Hecatostemon* and *Oxycarpha*, and 24 new species in various genera.

Burlingham, G. S. New species of *Russula* from Massachusetts. Mycologia **10**: 93-96. Mr 1918.

Four new species are described.

Britton, N. L. An undescribed *Scirpus* from California. Torreyia **18**: 36. f. 1. 8 Mr 1918.
Scirpus Congdoni sp. nov.

Buchanan, R. E. The evolution of the bacteria. Science II. **47**: 320-324. 29 Mr 1918.

A review of Dr. I. J. Kligler's paper on the evolution and relationship of bacteria containing additional information.

Burkholder, W. H. The anthracnose disease of the raspberry and related plants. Cornell Agr. Exp. Sta. Bull. 395: 155-183. f. 12-21. N 1917.

Bush, B. F. The genus *Euthamia* in Missouri. Am. Mid. Nat. **5**: 157-177. Mr 1918.

Carpenter, C. W. Wilt diseases of okra and the *Verticillium*-wilt problem. Jour. Agr. Research **12**: 529-546. pl. A, 17-27. 4 Mr 1918.

Clute, W. N. Note and comment. Am. Bot. **24**: 26-33. F 1918.

Includes notes on: Origin of coal, Sir Walter Raleigh's potatoes, The bluet in cultivation, The first frost, *Erigenia bulbosa*, *Lycopsida* and *Pteropsida*, Evolution of the larch, Thymol.

Conard, H. S. Prairie plants for the garden. Jour. Internat. Gard. Club **2**: 129-140. Mr 1918. [Illust.]

Cooper, J. R. Methods of controlling blister canker. Nebraska Agr. Exp. Sta. Bull. 161: 1-18. pl. 1-7. 15 D 1917.

Coulter, J. M. A century of botany in Indiana. Proc. Indiana Acad. Sci. **1916**: 236-260. 1917.

Crozier, W. J. Cell penetration by acids—IV. Note on the penetration of phosphoric acid. Jour. Biol. Chem. **33**: 463-470. f. 1-3. Mr 1918.

Deam, C. C. Plants new or rare to Indiana—VII. Proc. Indiana Acad. Sci. **1916**: 315-322. 1917.

- Downer, H. E.** Forcing native plants. Jour. Internat. Gard. Club. 2: 119-123. Mr 1918. [Illust.]
- Dunbar, J.** Notes on Cotoneasters. Jour. Internat. Gard. Club 2: 83-85. Mr 1918. [Illust.]
- Fairchild, D.** Gardens for plant breeders. Jour. Heredity 9: 112-116. f. 5-8. Mr 1918.
- Faulwetter, R. C.** The *Alternaria* leaf-spot of cotton. Phytopathology 8: 98-105. f. 1-3. Mr 1918.
- Fink, B.** The distribution of fungi in Porto Rico. Mycologia 10: 58-61. Mr 1918.
- Fitzpatrick, H. M.** Sexuality in *Rhizina undulata* Fries. Bot. Gaz. 65: 201-226. pl. 3, 4. 15 Mr 1918.
- Frye, T. C.** The rhacomitriums of western North America. Bryologist 20: 91-98. pl. 20-23. 5 D 1917; 21: 1-16. pl. 1-14. 15 Mr 1918.
- Fuller, G. D., & Bakke, A. L.** Raunkiaer's "life forms," "leaf-size classes," and statistical methods. Plant World 21: 25-37. f. 1. F 1918.
- Galloway, B. T.** Some of the broader phytopathological problems in their relation to foreign seed and plant introduction. Phytopathology 8: 87-97. Mr 1918.
- Gruber, C. L.** Herbs with fleshy fruits. Am. Bot. 24: 13, 14. F 1918.
- Hanson, H. C.** The invasion of a Missouri river alluvial flood plain. Am. Mid. Nat. 5: 196-201. pl. 1, 2. Mr 1918.
- Harper, E. T.** The *Clavaria fistulosa* group. Mycologia 10: 53-57. pl. 3-5. Mr 1918.
- Harper, E. T.** Two remarkable Discomycetes. Bull. Torrey Club 45: 77-86. pl. 1-3. 7 Mr 1918.
Underwoodia columnaris and *Pustularia gigantea*.
- Harper, R. M.** Some dynamic studies of Long Island vegetation. Plant World 21: 38-46. f. 1, 2. F 1918.
- Harris, J. A., & Avery, B. T.** Correlation of morphological variations in the seedling of *Phaseolus vulgaris*. Bull. Torrey Club 45: 109-119. 1 Ap 1918.
- Hendrickson, A. H.** The common honey bee as an agent in prune pollination. Calif. Agr. Exp. Sta. Bull. 291: 215-236. f. 1-13. Ja 1918.

- Herrington, A.** Lilies. Jour. Internat. Gard. Club 2: 5-29. Mr 1918.
[Illust.]
- Hoffer, G. N.** An aecium on red clover, *Trifolium pratense* L. Proc. Indiana Acad. Sci. 1916: 325, 326. 1917.
- Hoffer, G. N., & Holbert, J. R.** Results of corn disease investigations. Science II. 47: 246, 247. 8 Mr 1918.
- Holmes, E. M.** Medicinal herbs: their cultivation and preparation in Great Britain. Jour. Internat. Gard. Club 2: 35-82. Mr 1918.
[Illust.]
- Jackson, H. S.** Apple diseases in Indiana, with spray schedule. Indiana Agr. Exp. Sta. Circ. 7: 1-23. f. 1-14. S 1917.
- Jackson, T. F.** The description and stratigraphic relationships of fossil plants from the lower Pennsylvania rocks of Indiana. Proc. Indiana Acad. Sci. 1916: 405-428. pl. 1-10 + f. 1. 1917.
Fourteen new species are described in *Lepidodendron* (1), *Trigonocarpum* (3), and *Cardiocarpon* (10).
- Jackson, H. S., & Osner, G. A.** Potato diseases in Indiana. Indiana Agr. Exp. Sta. Circ. 71: 1-16. f. 1-5. S 1917.
- Jones, L. R.** Disease resistance in cabbage. Proc. Nat. Acad. Sci. 4: 42-46. f. 1, 2. 15 F 1918.
- Kendall, J. N.** Abscission of flowers and fruits in the Solonaceae, with special reference to *Nicotiana*. Univ. Calif. Publ. Bot. 5: 347-428. pl. 49-53 + f. 1-10. 6 Mr 1918.
- Knowlton, C. H., & Deane, W.** Reports on the flora of the Boston District,—XXVI. Rhodora 20: 15-18. 25 Ja 1918;—XXVII. Rhodora 20: 55-59. 2 Mr 1918.
- Long, B.** History of the American record of *Scirpus mucronatus*. Rhodora 20: 41-48. 2 Mr 1918.
- Ludwig, C. A., & Rees, C. C.** The structure of the uredinium in *Pucciniastrum Agrimoniae*. Am. Jour. Bot. 5: 55-60. pl. 8. 9 Mr 1918.
- Lunell, J.** The collecting, drying and mounting of plant specimens. Am. Mid. Nat. 5: 191-195. Mr 1918.
- Lyman, G. R.** The need of organization of American botanists for more effective prosecution of war work. Science II. 37: 279-285. 22 Mr 1918.

- Macbride, J. F.** New or otherwise interesting plants, mostly North American Liliaceae and Chenopodiaceae. *Contr. Gray Herb.* **II**: 53: 1-22. 26 F 1918.
Includes *Cirsium praeteriens*, *Lycium Spencerae*, *Lomatium Nelsonianum*, *Lotus Spencerae*, *Atriplex spinifera*, and *Tricyrtis clinata*, spp. nov. and several new varieties and new combinations.
- MacCaughey, V.** The native bananas of the Hawaiian Islands. *Plant World* **21**: 1-12. Ja 1918.
- McGee, J. M.** The imbibitional swelling of marine algae. *Plant World* **21**: 13-15. Ja 1918.
- McKay, M. B., & Pool, V. W.** Field studies of *Cercospora beticola*. *Phytopathology* **8**: 119-136. f. 1, 2. Mr 1918.
- McNair, J. B.** Secretory canals of *Rhus diversiloba*. *Bot. Gaz.* **65**: 268-273. 15 Mr 1918.
- Middlebrook, C. A.** Odorous flowers of Texas. *Am. Bot.* **24**: 3-6. F 1918.
- Moore, G. T.** Algological notes.—II. Preliminary list of algae in Devils Lake, North Dakota. *Ann. Missouri Bot. Gard.* **4**: 293-303. N 1917.
- Moore, W., & Williams, J. J.** Studies in greenhouse fumigation with hydrocyanic acid: physiological effects on the plant. *Jour. Agr. Research* **11**: 319-338. pl. 34 + f. 1-11. 12 N 1917.
- Mottier, D. M.** Chondriosomes and the primordia of chloroplasts and leucoplasts. *Ann. Bot.* **32**: 91-114. pl. 1. Ja 1918.
- Munn, M. T.** Neck-rot disease of onions. *New York Agr. Exp. Sta. Bull.* 437: 365-455. pl. 1-11. Jl 1917.
- Murphy, P. A.** The morphology and cytology of the sexual organs of *Phytophthora erythroseptica* Pethyb. *Ann. Bot.* **32**: 115-153. pl. 2, 3. Ja 1918.
- Murrill, W. A.** The Agaricaceae of tropical North America.—VII. *Mycologia* **10**: 15-33. 14 F 1918.
Includes 18 new species in *Athylospora* (11), *Psathyrella* (5), *Psilocybe* (1), and *Campanularius* (1).
- Murrill, W. A.** The Agaricaceae of tropical North America—VIII. *Mycologia* **10**: 62-85. Mr 1918.
Includes 29 new species in *Drosophila* (8), *Hypholoma* (1), *Gomphidius* (1), *Stropharia* (2), *Agaricus* (13), and *Coprinus* (4).
- Murrill, W. A.** Murrill's and Saccardo's names of polypores compared. 1-13. New York. 1918.

- Nelson, J. C.** Additions to the flora of western Oregon. *Torreyia* **18**: 21-35. 8 Mr 1918.
- Osner, G. A.** Additions to the list of plant diseases of economic importance in Indiana. *Proc. Indiana Acad. Sci.* **1916**: 327-332. 1917.
- Pammel, L. H., & Dox, A. W.** The protein contents and microchemical tests of the seeds of some common Iowa weeds. *Proc. Iowa Acad. Sci.* **24**: 527-532. 1917.
- Pipal, F. J.** Weed seeds in the soil. *Proc. Indiana Acad. Sci.* **1916**: 368-377. 1917.
- Popenoe, W.** Avocados as food in Guatemala. *Jour. Heredity* **9**: 99-107. *f. 1-4*. Mr 1918.
- Porter, A. A., & Coons, G. W.** Differences between the species of *Tilletia* on wheat. *Phytopathology* **8**: 106-113. *f. 1-4*. Mr 1918.
- Rathbun, R.** The Columbian Institute for the promotion of arts and sciences. *U. S. Nat. Mus. Bull.* **101**: 1-85. 18 O 1917.
Contains chapters on Botanical Gardens; Washington Botanical Society, etc.
- Rice, T. B.** A study of the relations between plant growth and combined nitrogen in Winona Lake. *Proc. Indiana Acad. Sci.* **1916**: 333-362. *f. 1-16*. 1917.
- Rock, J. F.** *Pelea* and *Platydesma*. *Bot. Gaz.* **65**: 261-267. *f. 1*. 15 Mr 1918.
Includes *Pelea Gayana* and *P. recurvata*, spp. nov.
- Rosendahl, C. O.** Observations on *Betula* in Minnesota with special reference to some natural hybrids. *Minnesota Bot. Stud.* **4**: 443-459. *pl. 49 + f. 1, 2*. 20 S 1916.
- Rosendahl, C. O.**, Observations on the morphology of the underground stems of *Symplocarpus* and *Lysichiton*, together with some notes on geographical distribution and relationship. *Minnesota Bot. Stud.* **4**: 137-152. *pl. 21, 22 + f. 1, 2*. 15 S 1911.
- Rosendahl, C. O., & Butters, F. K.** Reputed Minnesota plants which probably do not occur in the state. *Minnesota Bot. Studies* **4**: 461-473. 20 S 1916.
- Sax, H. J.** Spore formation in *Philocopra coeruleotecta*. *Am. Jour. Bot.* **5**: 61-78. *pl. 9-11*. 9 Mr 1918.
- Schaffner, J. H.** The expression of sexual dimorphism in heterosporous sporophytes. *Ohio Jour. Sci.* **18**: 101-125. *f. 1-28*. F 1918.